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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/666,532	09/19/2003	Gopal Raghavan	B-3996NP 621226-5	5888
36716	7590	08/19/2005		
LADAS & PARRY 5670 WILSHIRE BOULEVARD, SUITE 2100 LOS ANGELES, CA 90036-5679			EXAMINER MAI, ANH T	
			ART UNIT 2832	PAPER NUMBER
DATE MAILED: 08/19/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/666,532

Applicant(s)

RAGHAVAN ET AL.

Examiner

Anh T. Mai

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-28 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>12/04</u> | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1- 4, 10-13, 19-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Rabjohn [US 4,816,784].

Rabjohn discloses a plurality of windings 14, 16; each of the windings having a center, wherein each one of the windings substantially coincides with the centre of the other windings of the plurality of windings and each having different sizes compared to other windings [see figures 3(a)-3(c)]; at least one crossover CT conductively connecting one winding of the plurality of windings with another winding of the plurality of winding [see figure 3(c)].

With respect to claims 2-3, first and second conductor crossovers are disposed so as to preserve the symmetry of the inductor about an axis intersecting both first and second conductor crossover and the center of the windings and each larger winding having at least two portions; each smaller winding having at least two portions; the conductor crossover conductively connecting the smaller winding and the larger winding [figures 3(a)-(c)].

With respect to claim 4, the first terminal 30 connected to first portion of larger winding and second terminal 20 connected to smaller winding [figure 3(a)].

With respect to claims 10-12, see Rabjohn's figures 3(a) to 3(b).

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With respect to claim 13, terminals connect two portions of outer winding [figure 2].

With respect to claim 19, Rabjohn discloses an inductor having a plurality of windings 16, 14 wherein each winding is symmetric about a center of inductor, and plurality of windings being arranged in a common plane [figures 3(a-c)].

With respect to claims 20-23, the claims are method counterpart of product claims 1-4.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 5, 9, 14, 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rabjohn in view of figure 1, prior art disclosed by applicant.

Rabjohn discloses the invention as claimed as cited above except for a size of outer peripheral conductor being greater than size of larger winding. Prior art figure 1, as disclosed by applicant, has shown conductor 3-4 being greater than size of larger winding 1-2. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have different size windings as taught by the prior art to Rabjohn. The motivation would have been to have different current carrying capability of the winding for the inductor. Therefore, it would have been obvious to combine the prior art with Rabjohn.

With respect to claim 9, figure 1 of prior art, disclosed by applicant, shows the substrate 7 where the plurality of windings, outer peripheral conductor are all coplanar disposed on.

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With respect to claim 24, the claim is method counterpart of product claim 5.

4. Claims 6-8, 15-18, 25-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rabjohn in view of Oppelt [US 4992769].

Rabjohn discloses the invention as claimed as cited above except for outer peripheral conductor define an open curve in shape having first and second end points. Oppelt discloses a line transformer wherein the outer peripheral conductor having a curve shape and two end points with two terminals a,b and substrate 8 [figure 2; col 2, lines 59-67]. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to have different shape of windings as taught by Oppelt to Rabjohn. The motivation would have been to provide variety configurations of winding for the inductor. Therefore, it would have been obvious to combine the prior art with Rabjohn.

With respect to claims 8, 17, the inductor of Rabjohn has polygonal shape.

With respect to claims 25-28, the claims are method counterpart of product claims 1-4.

Response to Arguments

Applicant's arguments, see remarks, filed June 20, 05, with respect to claim 19 have been fully considered and are persuasive. The rejection of claim 19 has been withdrawn. In addition, the allowance of the claims 1-18, and 20-28 have been withdrawn in light of the new prior art found. The office action is as above.

Conclusion

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5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Raub [US 3181096]; Simburger [US 6580334].

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh T. Mai whose telephone number is 571-272-1995. The examiner can normally be reached on 5/4/9 Schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

am



ANH MAI
PRIMARY EXAMINER